**SHI JUNREN**

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**EDUCATION**

**The Chinese University of Hong Kong (Shenzhen) Sep.2021- May.2025**

**Major: BSc** inData Science and Big Data Technology

GPA: 2.992/4.0

**Core Courses:** Calculus, Chemistry and Life Sciences, Data Structures, Probability, Machine Learning, Numerical method, Discrete Mathematics, IT in Business Applications, Statistical Computing, Database System, Linear Algebra, Stochastic Simulation, Stochastic Processes, Introduction to Science and Engineering, etc.

**INTERNSHIP EXPERIENCE**

**Beijing Training Camp Internship Project at Bank of Beijing Nanjing Branch Aug. 2023**

**Responsibilities:**

l Interdepartmental Internship: During the internship, valuable experience was gained in working across different departments within the company. Teams from various departments collaborated, contributing to their projects.

l Competition for the Distribution of Family Assets: Played a key role in organizing and facilitating a competition within the group for the fair distribution of family assets. Responsibilities included data calculation, preparing English PowerPoint presentations, and delivering English presentations to communicate the results to the participants.

**Achievements:** Win the title of “golden group”

**Nanjing XinGao ZhiLian Information Technology Co., Ltd Nanjing, China**

***Data Processing Engineer* Jun.2023 - Aug.2023**

**Responsibilities:**

l Collected and processed rainfall and water level data from various sources.

l Utilized statistical algorithms and techniques to analyze and identify patterns in the data over time.

l Tested databases and fitted models using water level data from different periods.

**Achievements:** Successfully found the errors in the derived rainfall and water level data, and reasonably inferred that some water level detectors may have problems.

**RESEARCH EXPERIENCE**

**🗹 National Natural Science Foundation Project - Research on the Toxic Mechanism of Nanosilver to Human Brain Tissue Based on Human Brain-like Organoids, Southeast University/Team Member**

**Responsibilities: Jan. 2024**

* Developed bioinformatics analysis software and mastered its analytical methods
* Assisted in transcriptomics data analysis for an NSF-funded project on silver nanoparticle toxicity in human brain organoids, suggesting improvements for bulk data analysis
* Utilized specialized knowledge to perform bulk analysis of transcriptomic data, thereby advancing the research process

🗹 **Singular Value Decomposition/Project team member Dec 2023**

* **Introduction:** This project is about studying different algorithms to compute singular value decompositions and to utilize SVDs in several interesting imaging applications. This project involves singular value decomposition, deblurring revisited, power iterations and video background extraction.
* **Responsibilities:** Responsible for coding for singular value decompositionand debugging it promptly when its function is needed

**🗹 School of Data Science, CUHK (Shenzhen) May. 2023- Jun. 2023**

**Academic paper: Optimizing Resource Location and Allocation in Railway Flood Management Responsibilities:**

* Conducted an in-depth review of previous research papers related to the topic of study.
* Analyzed and synthesized key findings and insights from the literature to develop a comprehensive literature review.

**🗹 China Brain Project "Neuroscience and Inner Brain Research" - Study on the Developmental Cognitive Abilities of Chinese School-age Children, Southeast University Jul. 2022**

**Responsibilities:**

l Participant recruitment and data collection projects.

l Collaborated with a student to complete a literature review and presentation on Raman's detection of toxic substances from fingerprints, leading to a successful partnership.

**CAMPUS ACTIVITIES**

Volunteered for "2023 Hong Kong Higher Education Exhibition” Apr. 2023

Engaged in the "JuYue" club of the campus orchestra Sep. 2022-present

Mentor Program 2022 2022-2023

Basketball Freshman Cup Sep.2021

The Greatwall Wine Culture In China Aug. 2024

**TECHNICAL CAPABILITIES**

* **Programming Languages**: Proficient in Python, C++, Java, sql and R. Proficient in operating DJI drones.
* **Data Analysis and Machine Learning:** Proficient in data compilation, cleansing, and pre-processing techniques. Proficient in applying machine learning algorithms for predictive modeling and decision making.
* Experience in **statistical analysis,** probability theory and mathematical statistics.
* **Data Visualization:** Ability to present insights and findings through clear visualizations and reports. Experienced in creating informative data visualizations using tools such as Matplotlib.

**LANGUAGE**

**l TOEFL:** 104

l **GRE**: 322（3.5）